

1 **SECTION 8-08, RUMBLE STRIPS**

2 **April 7, 2003**

3 This section is revised to read:

4
5 **8-08.1 Description**

6 This work shall consist of constructing shoulder rumble strips by grinding asphalt or
7 cement concrete pavement. The work shall include cleanup and disposal of cuttings and
8 other resultant debris. The Standard Plans show the patterns and construction details
9 for the four types of shoulder rumble strips.

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11 **8-08.2 Vacant**

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13 **8-08.3 Construction Requirements**

14 The equipment shall have a rotary type cutting head or series of cutting heads capable
15 of grinding one or more recesses in the asphalt or cement concrete as detailed in the
16 Standard Plans. The difference in the surface texture between the high and low
17 surfaces from the grinding shall not exceed 1 /8 inch.

18

19 Rumble strips shall not be constructed on bridge decks, bridge approach slabs, or
20 cement concrete surfaces. In areas where monuments, drainage structures, induction
21 loop lead-ins, pavement markings or other features will not allow the rumble strips to be
22 constructed as detailed, the rumble strips shall be eliminated or relocated as approved
23 by the Engineer.

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25 The traveled lanes shall be kept free of cuttings and other construction debris at all
26 times. Immediately upon completion of rumble strip grinding, all cuttings, grinding
27 debris, dust, and other loose materials shall be removed from the rumble strips and
28 shoulder areas. All cuttings and other debris shall be disposed of as designated by the
29 Engineer or shall become the property of the Contractor and be disposed of outside the
30 project limits. Cuttings and other debris shall not be allowed to enter any waterways.

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32 When shown in the Plans, the rumble strips shall be fog sealed in accordance with the
33 requirements of Section 5-04.3(19) following the completion of the shoulder rumble
34 strip. All pavement markings, junction boxes, drainage structures, and similar objects
35 located in the shoulder shall not be fog sealed.

36

37 The accumulative error in the longitudinal spacing of the rumble strips and the gaps,
38 when required, shall not exceed plus or minus 5 percent.

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40 **8-08.4 Measurement**

41 Shoulder rumble strips will be measured to the nearest 0.01-mile along the mainline
42 roadway for each shoulder. No deductions will be made for required gaps shown on the
43 Standard Plans or for the elimination of rumble strips across bridge decks, bridge
44 approach slabs, cement concrete areas, or other areas approved by the Engineer.

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46 Fog sealing, when shown in the Plans, will be measured as asphalt for fog seal in
47 accordance with Section 5-04.4.

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49 **8-08.5 Payment**

50 Payment will be made in accordance with Section 1-04.1, for the following bid items
51 when included in the proposal:

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“Shoulder Rumble Strip Type __”, per mile.

Layout of the rumble strip pattern on the shoulder for the grinding operation is the responsibility of the Contractor. All costs involved in this work shall be considered incidental to the bid item.

Payment for fog sealing the shoulder, when shown in the Plans, shall be paid as asphalt for fog seal in accordance with Section 5-04.5.